CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.12/BTS/CSR-4/807g/CEMENT/2015-16 Date: 07.04.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Shettyhalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. B.T. Surendra,** No.1606/29, 7A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560079.
*NAME OF THE WORK	:	Improvements to drains at Shettyhalli Janatha Colony, Near Airforce Compound, in Ward No.12, in Shettyhalli Sub Division BBMP, Bangalore.
*REFERENCE	:	BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 04.04.2015
SAMPLE ID	:	Cement – Sample 2
SAMPLE RECEIVED ON	:	04.04.2015
PERIOD OF TESTING	:	04.04.2015 to 07.04.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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ಎಸ್.ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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Chief Executive Officer

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Job No.: CTCE/BBMP/W.No.12/BTS/CSR-4/807g/SAND-Gradation/2015-16 : 07.04.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.T. Surendra,** No.1606/29, 7A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560079.
* Name of Work	: ImprovementS to drains at Shettyhalli Janatha Colony, Near Airforce Compound, in Ward No.12, in Shettyhalli Sub Division BBMP, Bangalore.
Reference	: BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 04.04.2015
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Fine Aggregates – Sample 2
Sample Received on	: 04.04.2015
Date of Testing	: 07.04.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	91.50	90-100	90-100	90-100	95-100
2.36	71.60	60-95	75-100	85-100	95-100
1.18	51.60	30-70	55-90	75-100	90-100
600 Micron	28.40	15-34	35-59	60-79	80-100
300 Micron	12.60	5-20	8-30	12-40	15-50
150 Micron	5.70	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.12/BTS/CSR-4/807g/AGG/GR/2015-16 : 07.04.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.T. Surendra,** No.1606/29, 7A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560079.
* Name of Work	: Improvements to drains at Shettyhalli Janatha Colony, Near Airforce Compound, in Ward No.12, in Shettyhalli Sub Division BBMP, Bangalore.
Reference	: BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 04.04.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm) – Sample 2
Sample Received on	: 04.04.2015
Date of Testing	: 07.04.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.50	95-100	85-100
20	45.05	30-70	0-20
10	18.55	10-35	0-5
4.75	3.05	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.12/BTS/CSR-4/807g/AGG/GR/2015-16 : 07.04.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.T. Surendra,** No.1606/29, 7A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560079.
* Name of Work	: Improvements to drains at Shettyhalli Janatha Colony, Near Airforce Compound, in Ward No.12, in Shettyhalli Sub Division BBMP, Bangalore.
* Reference	: BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 04.04.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (20mm) – Sample 2
Sample Received on	: 04.04.2015
Date of Testing	: 07.04.2015

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	96.00	95-100	85-100
10	32.00	25-55	0-20
4.75	5.00	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/W.No.12/BTS/CSR-4/807g/CC Solid Block/2015-16 : 10.04.2015

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.T. Surendra,** No.1606/29, 7A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560079.
* Name of the Work	: Improvements to drains at Shettyhalli Janatha Colony, Near Airforce Compound, in Ward No.12, in Shettyhalli Sub Division BBMP, Bangalore.
Reference	: BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 04.04.2015
Sample Received on	: 04.04.2015
Date of Testing	: 10.04.2015
Size of Blocks	: 400mm x 150mm x 200mm
Cross Sectional Area	: 60000 mm^2
Technical Reference	: IS: 2185 (Part 1) - 2005
No. of Blocks Tested	: 08

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Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	25.62	192.6	3.21	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	25.63	193.6	3.23	
3	Block 3	24.56	194.5	3.24	
4	Block 4	26.35	196.1	3.27	
5	Block 5	25.95	197.2	3.29	
6	Block 6	26.31	195.3	3.26	
7	Block 7	25.92	194.6	3.24	
8	Block 8	26.32	196.5	3.28	

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Job No.: CTCE/BBMP/W.No.12/BTS/CSR-4/807g/CUBE/2015-16 29.06.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. B.T. Surendra,**
No.1606/29, 7A Cross, 7th Main, Govindaraja Nagara, Bangalore – 560079.

*** Name of the work** : Improvements to drains at Shettyhalli Janatha Colony, Near Airforce Compound, in Ward No.12, in Shettyhalli Sub Division BBMP, Bangalore.

*** Reference** : BBMP/AEE/SSD/DZ/PR/2015-16 Dated: 04.04.2015

*** Sample ID** : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{15}

Compressive Strength as on : 28th day

Sample Received on : 01.06.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.06.2015	29.06.2015	8.125	356.3	15.84
2	01.06.2015	29.06.2015	8.236	362.3	16.10
3	01.06.2015	29.06.2015	8.302	375.6	16.69

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